CLAIM AMENDMENT

Please amend the claims as follows

1. (Previously presented) A method for producing a transformed maize plant comprising the steps of:

inserting a nucleic acid comprising a selectable marker gene into a transformable maize tissue by inoculating the transformable maize tissue with *Agrobacteria* containing the nucleic acid, wherein the transformable maize tissue comprises an immature maize embryo;

obtaining a transformed maize tissue;

culturing the transformed maize tissue for a period of time from about 7 days to about 42 days at a temperature of from 30°C to about 34°C in a selection media containing a selection compound that inhibits the growth of non-transformed maize tissue and permits the continued growth of transformed maize tissue;

identifying and selecting transformed maize tissue that grows in the selection media; and

regenerating a transformed maize plant from the selected transformed maize tissue.

- 2. (Original) The method of claim 1 wherein the period of time in the selection media is between about 7 days and about 28 days.
- 3. (Canceled).
- 4. (Previously presented) The method of claim 1 wherein the selection temperature is 30°C.
- 5. (Previously presented) The method of claim 1 wherein the selection temperature is maintained for a period of time between about 7 days and about 14 days.
- 6. (Original) The method of claim 1 wherein the selection is performed in a single vessel without replacing or replenishing the selection media during the selection period.
- 7. (Original) The method of claim 1 wherein the selection compound is a herbicide.
- 8. (Original) The method of claim 7 wherein the herbicide is selected from the group consisting of glyphosate, bialophos, phosphinothricin or Basta.

- 9. (Canceled)
- 10. (Previously presented) The method of claim 1 wherein the *Agrobacteria* inoculation is performed for less than about 20 minutes.
- 11. (Previously presented) The method of claim 1 wherein the *Agrobacteria* inoculation is performed by contacting the transformable maize tissue with filter paper saturated with the *Agrobacteria* containing the nucleic acid.
- 12. (Original) The method of claim 11 wherein the filter paper contacts the transformable maize tissue for between about 5 and about 60 minutes.
- 13. (Previously presented) The method of claim 1 wherein the *Agrobacteria* inoculation is performed by spotting the maize tissue with about 1µL of *Agrobacteria* containing the nucleic acid.
- 14. (Original) A transgenic maize plant produced by the method of claim 1.
- 15. (Withdrawn) A method for producing a transformed wheat, rice, barley, or sorghum plant comprising the steps of:

inserting into a transformable wheat, rice, barley, or sorghum tissue a nucleic acid comprising a selectable marker gene to obtain a transformed cereal tissue;

culturing the transformed tissue for a period of time from about 7 days to about 42 days at a temperature of from 30°C to about 34°C in a selection media containing a selection compound that inhibits the growth of non-transformed tissue and permits the continued growth of transformed tissue;

identifying and selecting transformed tissue that grows in the selection media; and regenerating a transformed plant from the selected transformed wheat, rice, barley, or sorghum tissue.

- 16. (Withdrawn) The method of claim 15 wherein the period of time in the selection media is between about 7 days and about 28 days.
- 17. (Canceled).

- 18. (Withdrawn) The method of claim 15 wherein the selection temperature is 30°C.
- 19. (Withdrawn) The method of claim 15 wherein the selection temperature is maintained for a period of about 1-14 days.
- 20. (Withdrawn) The method of claim 15 wherein the selection is performed in a single vessel without replacing or replenishing the selection media during the selection period.
- 21. (Withdrawn) The method of claim 15 wherein the selection compound is a herbicide.
- 22. (Withdrawn) The method of claim 21 wherein the herbicide is selected from the group consisting of glyphosate, bialophos, phosphinothricin or Basta.
- 23. (Withdrawn) The method of claim 15 wherein the nucleic acid is inserted into the tissue by inoculation with an *Agrobacterium* containing said nucleic acid.
- 24. (Withdrawn) The method of claim 23 wherein the *Agrobacterium* inoculation is performed for less than about 20 minutes.
- 25. (Withdrawn) The method of claim 23 wherein the *Agrobacterium* inoculation is performed by contacting the transformable tissue with filter paper saturated with the *Agrobacterium* containing the nucleic acid.
- 26. (Withdrawn) The method of claim 25 wherein the filter paper contacts the transformable maize tissue for between about 5 and about 60 minutes.
- 27. (Withdrawn) The method of claim 23 where in the Agrobacterium inoculation is performed by spotting the tissue with about 1 μ L of Agrobacterium containing the nucleic acid.
- 28. (Withdrawn) A transgenic wheat, rice, barley, or sorghum plant produced by the method of claim 15.
- 29. (Withdrawn) A method for increasing the transformation efficiency of a cereal transformation process comprising limiting the anaerobiosis effect during the inoculation of *Agrobacterium* to the transformable cereal tissue.

- 30. (Previously presented) The method of claim 1, wherein the transformable maize tissue is an immature embryo and the nucleic acid is inserted by inoculation with an *Agrobacterium* containing said nucleic acid.
- 31. (Currently amended) A method for producing a transformed maize plant comprising the steps of: inserting a nucleic acid comprising a selectable marker gene into a transformable maize tissue by inoculating the transformable maize tissue with *Agrobacteria* containing the nucleic acid, wherein the transformable maize tissue comprises an immature maize embryo;

obtaining a transformed maize tissue;

culturing the transformed maize tissue at a first temperature for a first period of time and at a second temperature for a second period of time in a selection media containing a selection compound that inhibits the growth of non-transformed maize tissue and permits the continued growth of transformed maize tissue,

wherein the first temperature ranges from about 30°C to about 34°C, and the second temperature is about 27°C, and the second temperature is lower than the first temperature, and

wherein the first period of time ranges from about 7 days to about 42 days and the second period of time is at least about 7 days;

identifying and selecting transformed maize tissue that grows in the selection media; and

regenerating a transformed maize plant from the selected transformed maize tissue.

- 32. (New) The method of claim 1, wherein culturing the transformed maize tissue is carried out at a temperature of about 32°C.
- 33. (New) The method of claim 1, wherein culturing the transformed maize tissue is carried out at a temperature of about 34°C.
- 34. (New) The method of claim 31, wherein the first temperature is about 32°C.
- 35. (New) The method of claim 31, wherein the first temperature is about 34°C.